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8 December 1964

MEMORANDUM FOR: Assistant for Plans and Development

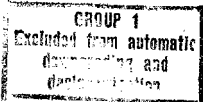
SUBJECT : Additional Requirements for PAR 211 -  
Microdensitometer Study of Effects of  
Processing

1. On 15 November 1964 a meeting was held at the [ ] concerning progress made on this study and the possibility of including additional phases. The study essentially will describe the mutual effects of emulsion type, printing and processing on the characteristics of image edges. Mensuration procedures will also be included as a portion of the report.

2. During a review of the program and inspection of a graphic, additional areas of coverage for this study became evident.

a. The two scales of photography being considered did not include all major systems. Under the existing program, photography at approximately 1:300,000 and 1:100,000 are being studied. Photography at a 1:23,000 scale has been used extensively and is a valuable source of intelligence information. No study of the B - configuration photography was contemplated and it was the contract monitor's opinion that it should be included. [ ] was requested to submit a time/material/cost estimate for including the third scale portion of the study. Although the first solution to obtaining photography was thought to be reduction or enlargement of unclassified photographs, further investigation concerning the problems of reproducing 1:300,000, 1:100,000, and 1:23,000 scales has led the contract monitor to the conclusion that system photography should be used. It is therefore requested that authorization be granted for [ ] to chose individual frames of photography or portions thereof from operational passes over domestic areas to produce film transparencies for the study. [ ] must be informed that the photographs will not conflict with Operations' security policy concerning certain restricted areas.

Declass Review by NGA.



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25X1 b. The processing study used only a low contrast target. Imagery present in all photography yields not only low contrast but also a high percentage of medium contrast features -- very few high contrast conditions exist. Authorization is, therefore, requested for including the medium contrast resolution target in the processing study. This addition would provide processing relationships -- differences and similarities -- between procedures for the low and medium contrast processing, and methodology of processing procedures compatible to both contrast presentations. [ ] was asked to submit a time/material/cost estimate for insertion of the medium contrast study. ←

25X1 In a discussion with [ ] the addition of a medium contrast target was suggested. [ ] stated that it might be useful to the program if the medium contrast target could be incorporated into the study, but should not hinder the present status or necessitate a complete revision of the study. 25X1

3. A priority basis for receipt of the processing study should be set up as follows with your concurrence: ←

- a. Results of study concerning 1:300,000 scale photography
- b. Results of study concerning 1:100,000 scale photography
- c. Results of study concerning the 1:23,000 scale photography.

25X1 4. [ ] was called on 4 December 1964 and was asked about the problems that may be encountered if the medium contrast target were included in the study. He stated that incorporating this target would present no difficulty. [ ] was informed that the low contrast and medium contrast values would follow Mil Std 150-A which is 1.6:1 and 6.3:1 respectively and that if any additional contrast requirements were necessary he would be informed. 25X1

25X1 5. A Fortran computer program for determining the mission edge spread function and modulation transfer function was requested from [ ] (This is in response to the request from TSB/TID.)

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TSB had received a Fortran IV program from [ ] on 24 November 1964.) [ ] stated that their program is kept in a state of flux where changes, corrections and additions are made on a continuing basis. He also stated that he would have to get permission from his supervisors before sending us the program. A TWX will be sent on 8 December 1964 requesting a card deck of the program to give us a record of the request.

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[ ]  
Development Branch, P&DS

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